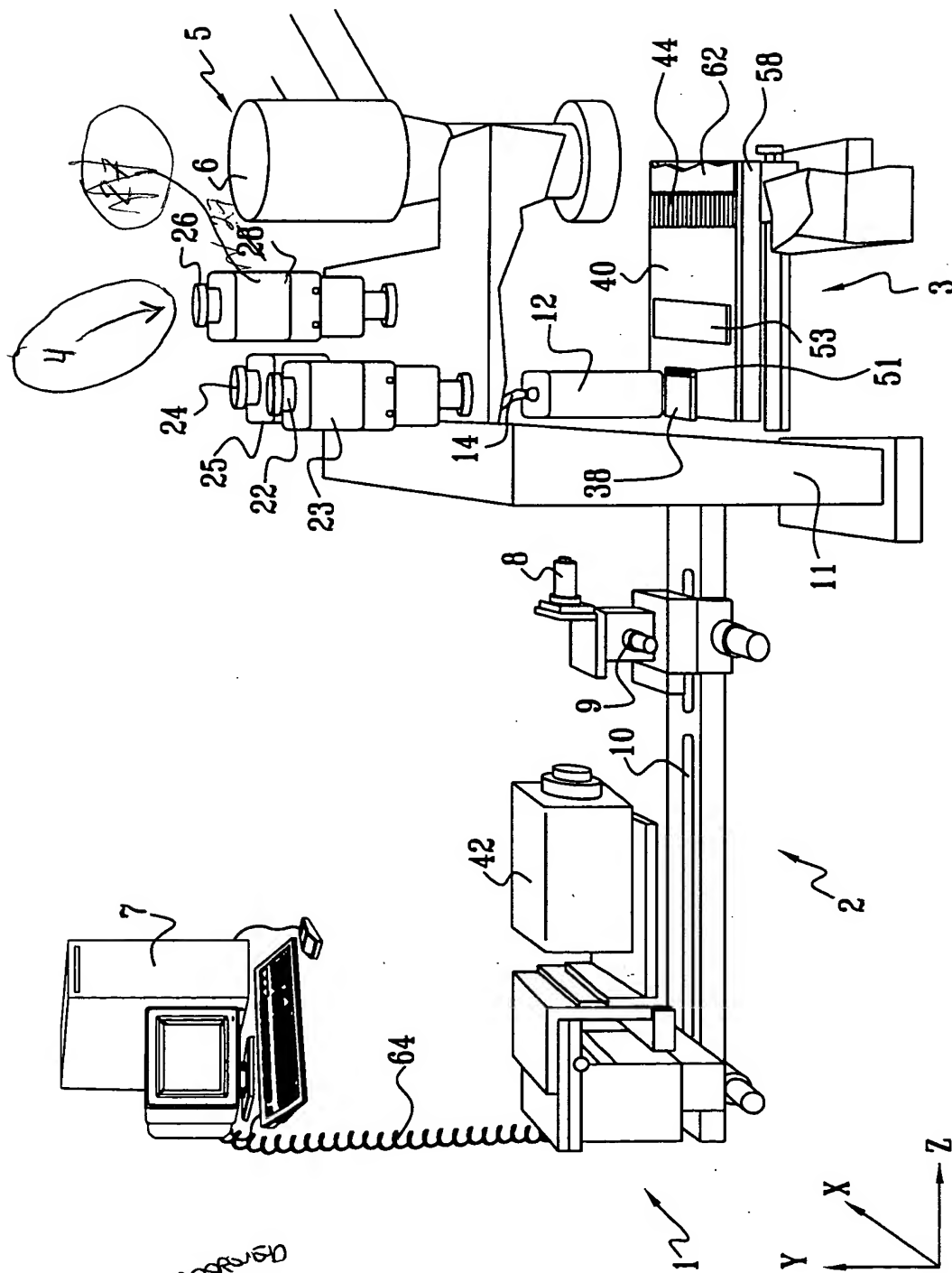


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FIG. 1



1/25/04
2/25/04
3/25/04

PIEZO Y

0.00

JOG SIZE MICRON

48.0

0.1 1.0 10.0 100.0 1000.0

30

25

20

15


10

5


0

JOG CONTROL

ROLL Z-
(RAISES FAR SIDE)



ROLL Z-
(OUT FAR SIDE)




Z- IN


○

OUT Z+

ROLL Y-
(IN FAR SIDE)



ROLL Z-
(LOWERS FAR SIDE)



68

66

PIEZO X

0.00

0 5 10 15 20 25 30

NANOSTEP POSITION

0 0.0592 Z 70

78 2.9281 0Z ROLL

76 3.7760 0Y ROLL

BACKLASH COMPENSATE

OFF

CONFIG NAME

XXXXXXX

NANOSTEP NAMES

0 Z-OPTICAL Z

THETA Z θZ

THETA Y θY

THETA Y θY

PIEZO NAMES 72

0 Z-OPTICAL X

74 y-OPTICAL Y

QUIT

HOME

MAP FOR FIGS. 4A, 4B, 4C, 4D

4A	4B
4C	4D

(NO ERROR)

STATUS

OFF

CODE

0

SOURCE

(ERROR OUT)

STATUS

OFF

CODE

0

SOURCE

FIG. 4A

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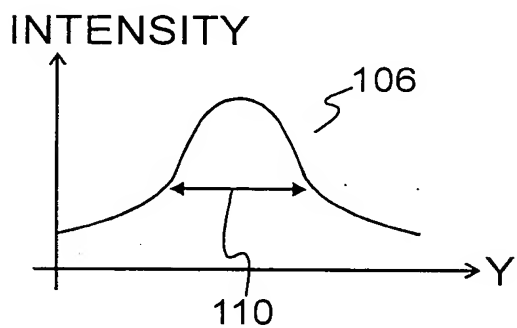
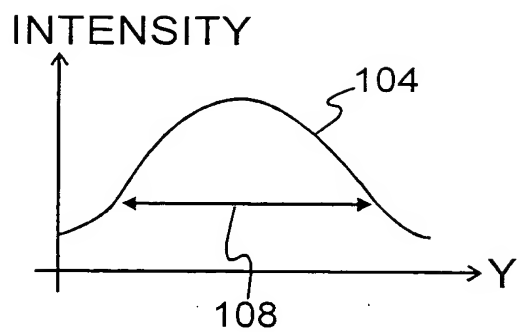


FIG. 11

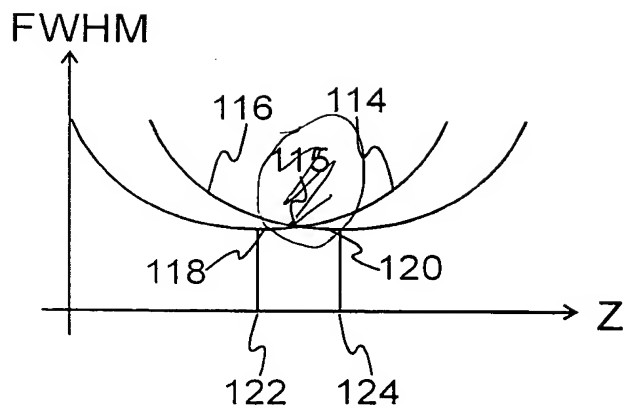


FIG. 12

APPROVED
BY
MS
2/25/01

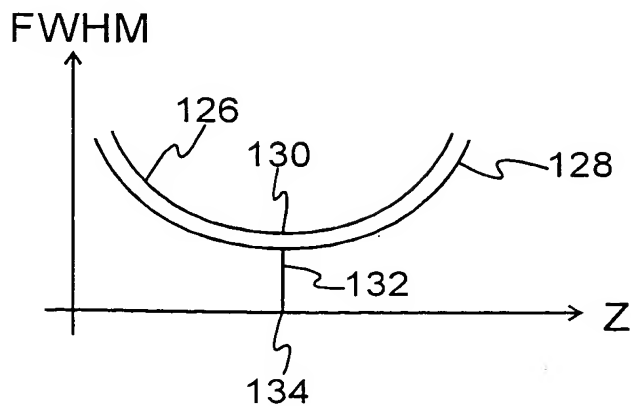


FIG. 13

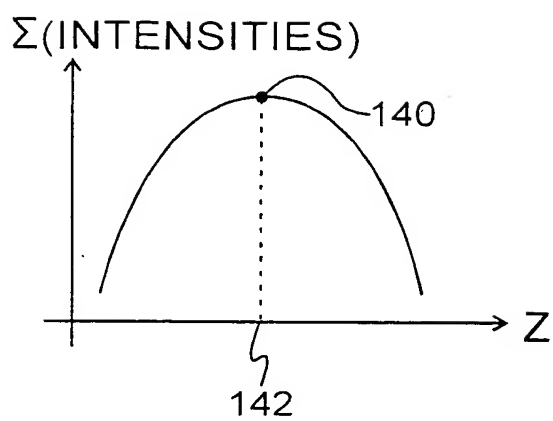


FIG. 14

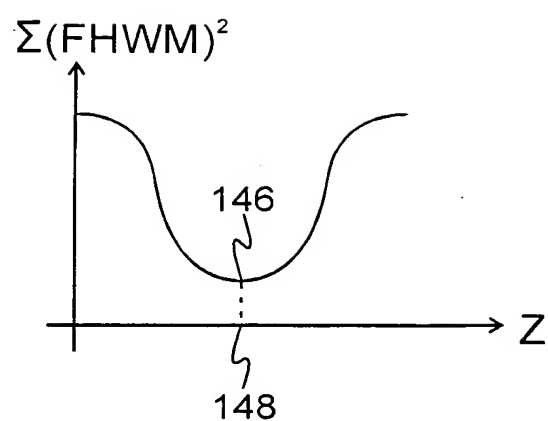
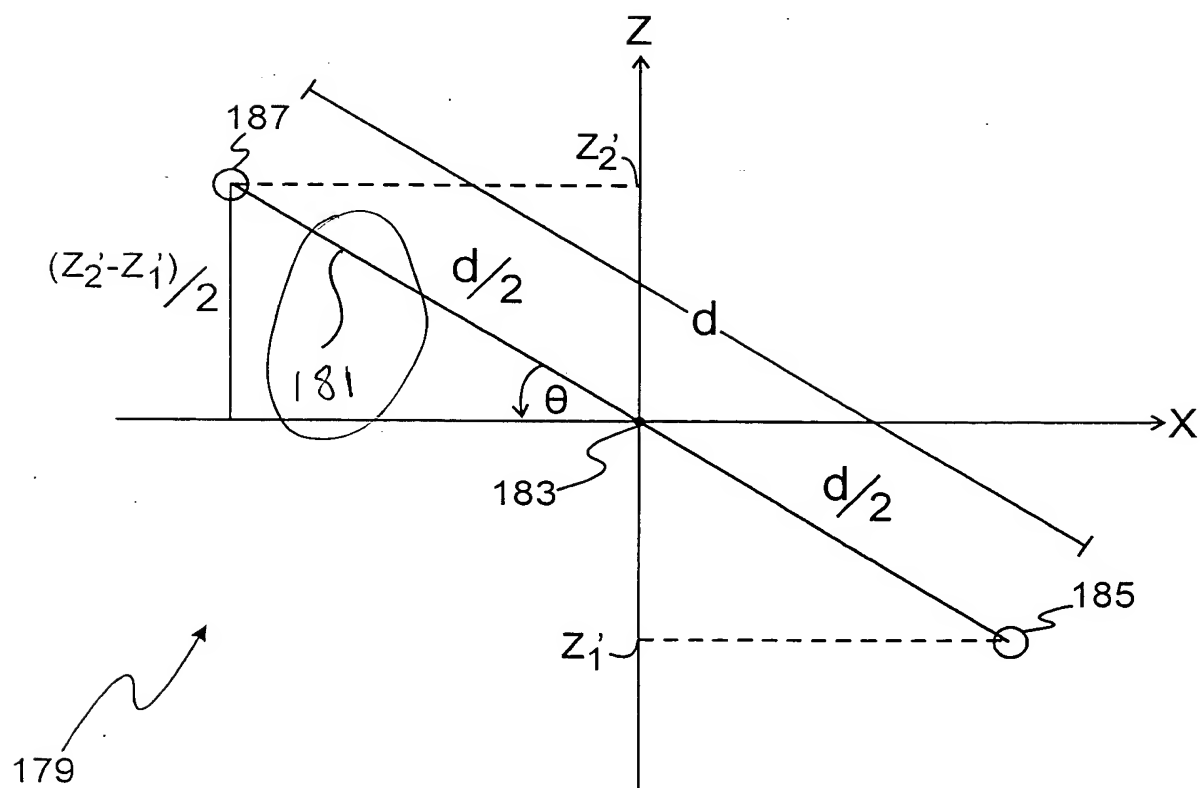
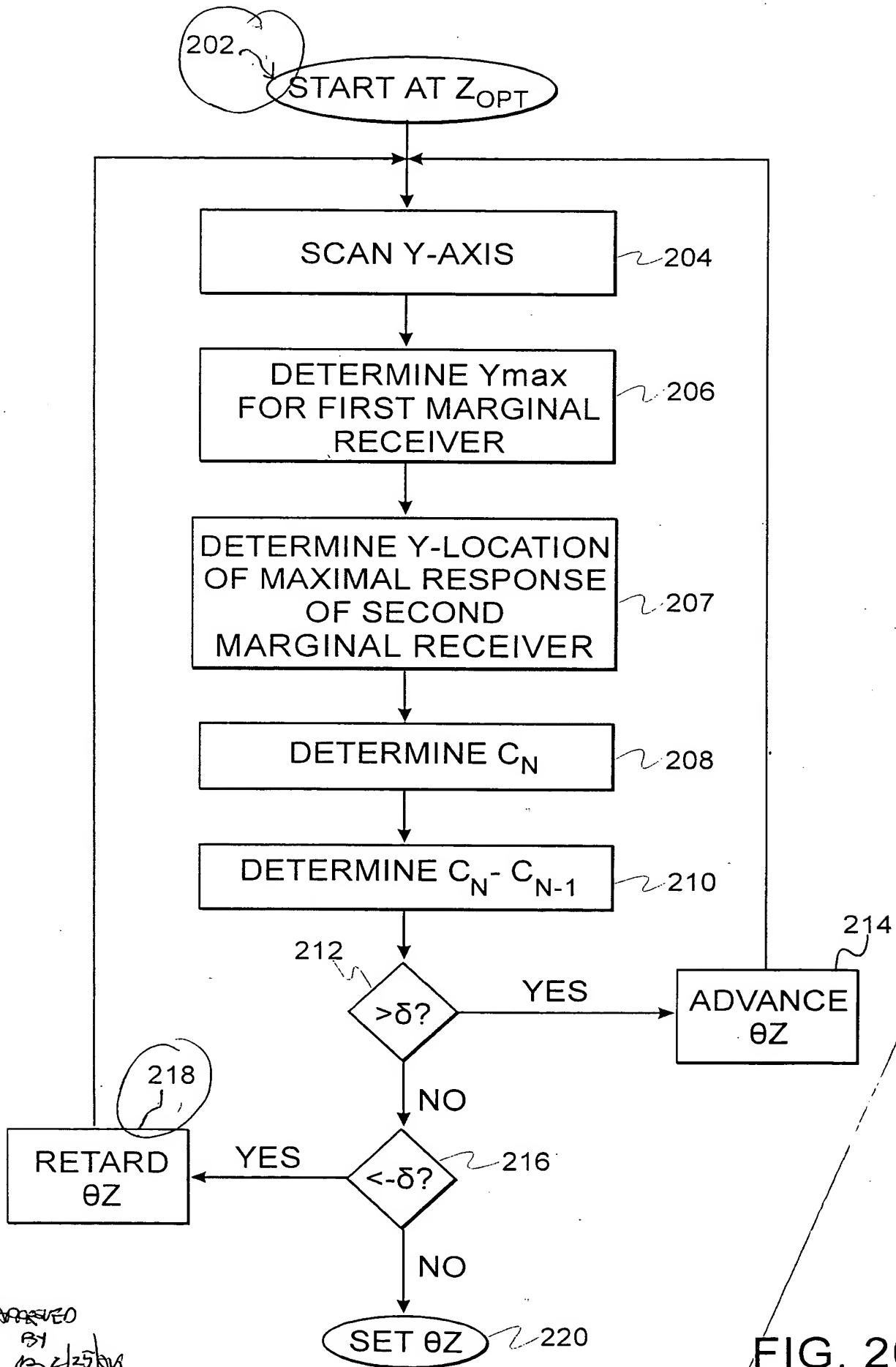


FIG. 15



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BY
MS
2/25/94

FIG. 18



APPROVED
BY
12/25/04

FIG. 20